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BN68-01029F-00

SERIES 5

# LCD TV
# user manual

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Model _____ Serial No. _____

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## ❑ Precautions When Displaying a Still Image

A still image may cause permanent damage to the TV screen

- Do not display still image and partially still on the LCD panel for more than 2 hours as it can cause screen image retention. This image retention is also known as “screen burn”. To avoid such image retention, reduce the degree of brightness and contrast of the screen when displaying a still image.
- Watching the LCD TV in 4:3 format for a long period of time may leave traces of borders displayed on the left, right and centre of the screen caused by the difference of light emission on the screen. Playing a DVD or a game console may cause a similar effect to the screen. Damages caused by the above effect are not covered by the Warranty.
- Displaying still images from Video games and PC for longer than a certain period of time may produce partial after-images. To prevent this effect, reduce the ‘brightness’ and ‘contrast’ when displaying still images.

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❑ **Symbol**

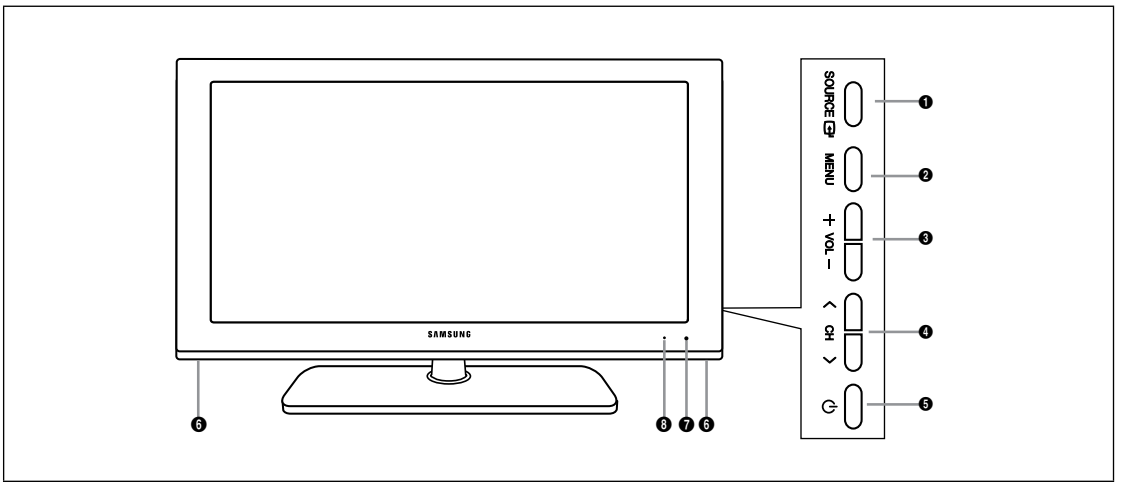
Note | One-Touch Button | TOOL Button

# CONNECTING AND PREPARING YOUR TV

Figures and illustrations in this User Manual are provided for reference only and may differ from actual product appearance. Product design and specifications may be changed without notice in order to enhance product performance.

## Viewing the Control Panel

The product colour and shape may vary depending on the model.
You can use a button by pressing the side panel buttons.




**❶ SOURCE**
Toggles between all the available input sources. In the on-screen menu, use this button as you would use the **ENTER** button on the remote control.

**❷ MENU**
Press to see an on-screen menu of your TV's features.

**❸ – VOL +**
Press to increase or decrease the volume.
In the on-screen menu, use the **– VOL +** buttons as you would use the ◄ and ► buttons on the remote control.

**❹ CH**
Press to change channels. In the on-screen menu, use the **CH** buttons as you would use the ▼ and ▲ buttons on the remote control.

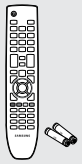
**❺ (POWER)**
Press to turn the TV on and off.

**❻ SPEAKERS**

**❼ REMOTE CONTROL SENSOR**
Aim the remote control towards this spot on the TV.

**❽ POWER INDICATOR**
Blinks and turns off when the power is on and lights up in stand-by mode.

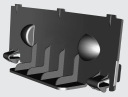
## Accessories



Remote Control & Batteries (AAA x 2)

Power Cord

Cleaning Cloth



Cover-Bottom

(M4 X L16)

Stand Screw X 4

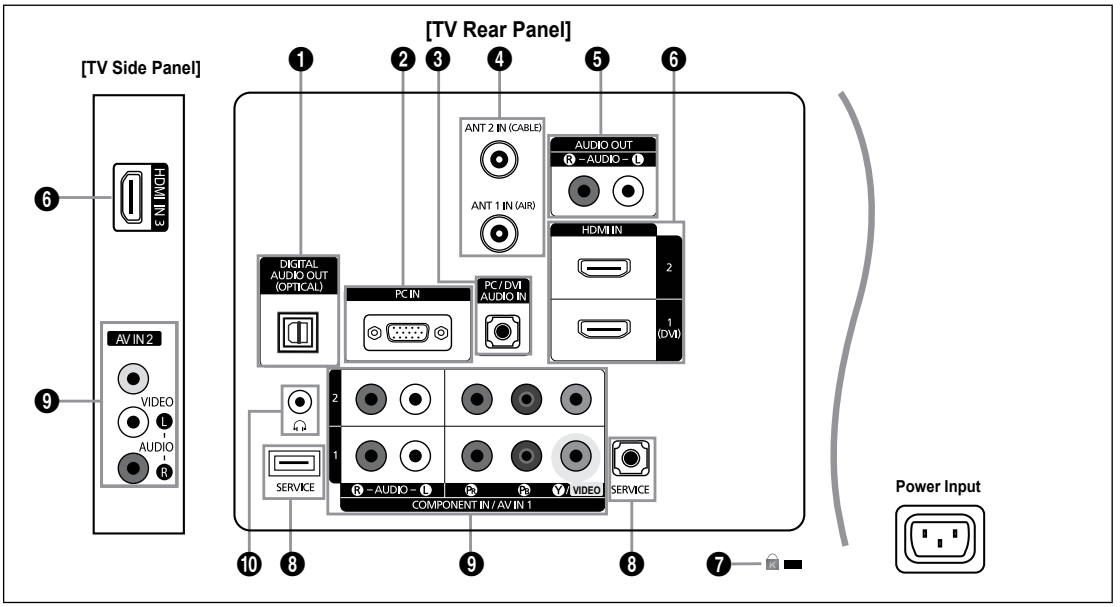
(M4 X L18)

Stand Screw X 3
(32inch model only)

- Owner's Instructions
- Warranty card
- Safety Guide
- Registration Cards

Please make sure the following items are included with your LCD TV. If any items are missing, contact your dealer.
Warranty card / Safety Guide / Registration Cards (Not available in all locations)
The items colour and shape may vary depending on the model.

## Viewing the Connection Panel




The product color and shape may vary depending on the model.

❶ **DIGITAL AUDIO OUT (OPTICAL)**
Connects to a Digital Audio component such as a Home theater receiver.

❷ **PC IN**
Connects to the video and audio output jacks on your PC.

❸ **PC/DVI AUDIO IN**
Connect to the audio output jack on your PC.
DVI audio outputs for external devices.

❹ **ANT 1 IN (AIR) / ANT 2 IN (CABLE)**
Connects to an antenna or cable TV system.

❺ **AUDIO OUT [R-AUDIO-L]**
Connects to the audio input jacks on your Amplifier/Home theater.

❻ **HDMI IN 1(DVI), 2, 3**
Connects to the HDMI jack of a device with an HDMI output.

- No sound connection is needed for an HDMI to HDMI connection.
- Use the **HDMI IN 1(DVI)** jack for DVI connection to an external device. Use a DVI to HDMI cable or DVI-HDMI adapter (DVI to HDMI) for video connection and the **PC / DVI AUDIO IN** jacks for audio. When using an HDMI / DVI cable connection, you must use the **HDMI IN 1(DVI)** jack.

❼ **KENSINGTON LOCK**
The Kensington Lock (optional) is a device used to physically fix the system when used in a public place. If you want to use a locking device, contact the dealer where you purchased the TV.

- The location of the Kensington Lock may be different depending on its model.

❽ **SERVICE**
Connector for service only.

❾ **COMPONENT IN 1, 2**
Connects Component video / audio. The **COMPONENT IN 1** jack is also used as the **AV IN 1** jack.

- Connect the video cable to the **COMPONENT IN 1 [Y/VIDEO]** jack and the audio cable to the **COMPONENT IN 1 [R-AUDIO-L]** jacks.

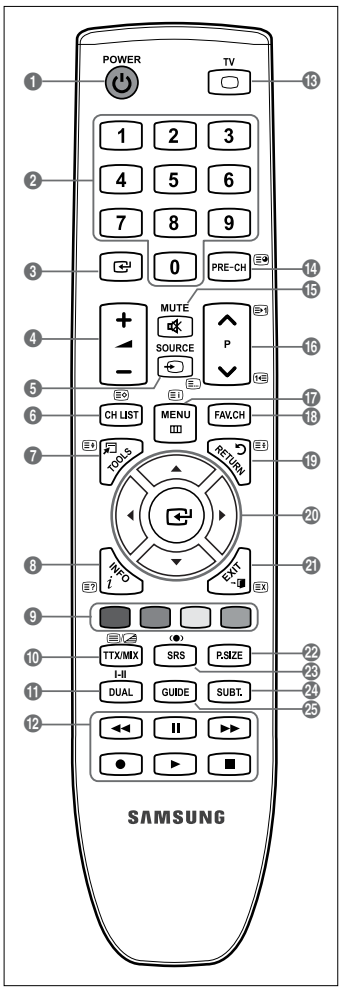
**AV IN 1, 2 [VIDEO] / [R-AUDIO-L]**
Video and audio inputs for external devices, such as a camcorder or VCR.

❿ (**HEADPHONE**)
Headphone may be connected to the headphone output on your set. While the head phone is connected, the sound from the built-in speakers will be disabled.

- Using the sound function is restricted when connecting headphones to the TV.
- Prolonged use of headphones at a high volume may damage your hearing.
- You will not hear sound from the speakers when you connect headphones to the TV.
- The headphone volume and TV volume are adjusted separately.

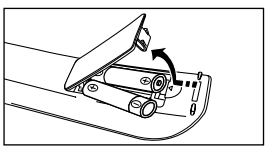
## Viewing the Remote Control

- You can use the remote control up to a distance of about 23 feet from the TV.
- The performance of the remote control may be affected by bright light.
- The product colour and shape may vary depending on the model.




1. **POWER** : Television Standby button.
2. **NUMERIC BUTTONS** : Press to change the channel.
3. **:** Performs the same function as the **ENTER** key of the directional keys. When switching channels with the numeric buttons, and you press the channel number and then the **ENTER** key, the channel is immediately switched.
4. **– +** : Press to increase or decrease the volume.
5. **SOURCE** : Press to display and select the available video sources.
6. **CH LIST** : Displays the Channel List on screen
7. **TOOLS** : Use to quickly select frequently used functions.
8. **INFO** : Press to display information on the TV screen.
9. **COLOUR BUTTONS** : Use these buttons in the Channel list menus etc.
10. **TTX/MIX** : TEXT function in MHEG (This function is not available in some territories)
11. **DUAL** : Sound effect selection
12. Use these buttons in the DMA and Anynet+ modes. ( ●): This remote can be used to control recording on Samsung recorders with the Anynet+ feature)
13. **TV** : Selects the TV mode directly.
14. **PRE-CH :** Enables you to return to the previous channel you were watching.
15. **MUTE :** Press to temporarily cut off the sound.
16. **P ∧/P ∨** : Press to change channels.
17. **MENU** : Displays the main on-screen menu
18. **FAV.CH** : Press to switch to your favourites channels.
19. **RETURN** : Returns to the previous menu
20. **UP▲ / DOWN▼ / LEFT◄ / RIGHT► / ENTER** : Use to select on-screen menu items and change menu values.
21. **EXIT** : Press to exit the menu.
22. **P.SIZE** : Picture size selection
23. **SRS** : SRS TS HD selection.
24. **SUBT.** : Digital subtitle display
25. **GUIDE** : Electronic Programme Guide (EPG) display.

## Installing Batteries in the Remote Control



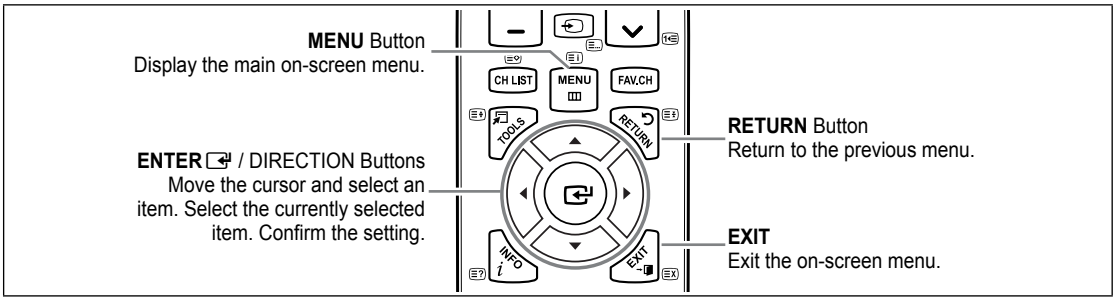
1. Lift the cover at the back of the remote control upward as shown in the figure.
2. Install two AAA size batteries.
   - Make sure to match the '+' and '–' ends of the batteries with the diagram inside the compartment.
3. Replace the cover.
   - Remove the batteries and store them in a cool, dry place if you won't be using the remote control for a long time.

- If the remote control doesn't work, check the following:
  - Is the TV power on?
  - Are the plus and minus ends of the batteries reversed?
  - Are the batteries drained?
  - Is there a power outage or is the power cord unplugged?
  - Is there a special fluorescent light or neon sign nearby?

# OPERATION

## Viewing the menus

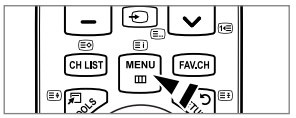
Before using the TV, follow the steps below to learn how to navigate the menu in order to select and adjust different functions.



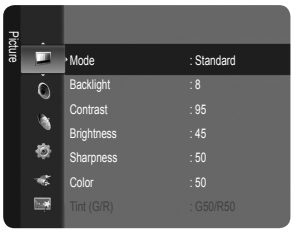

### ❑ Operation the OSD (On Screen Display)

The access step may differ depending on the selected menu.

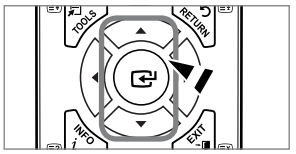
1. Press the **MENU** button.



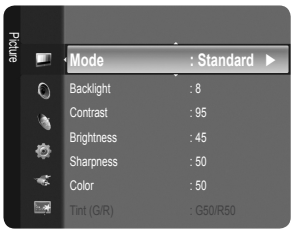

2. The main menu appears on the screen. The menu's left side has icons : **Picture, Sound, Channel, Setup, Input, Application, Support.**



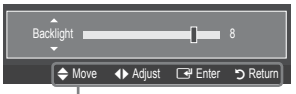

3. Press the ▲ or ▼ button to select one of the icons.




4. Then press the **ENTER** button to access the icon's sub-menu.
5. Press the ▲ or ▼ button to select the icon's submenu.



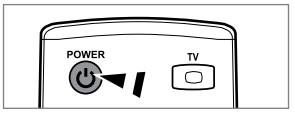

6. Press the ◄ or ► button to decrease or increase the value of a particular item. The adjustment OSD may differ depending on the selected menu.
7. Press the **ENTER** button to complete the configuration. Press the **EXIT** button to exit.



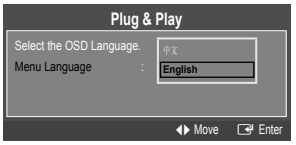

Help icon

## Plug & Play Feature

When the TV is initially powered on, basic settings proceed automatically and subsequently.




1. Press the **POWER** button on the remote control. The message **Select the OSD** Language. is displayed. Press the **ENTER** ↵ button. Select the appropriate language by pressing the ▲ or ▼ button. Press the **ENTER** ↵ button to confirm your choice.
2. Press the ◄ or ► button to select **Store Demo** or **Home Use**, then the **ENTER** ↵ button.
   - We recommend setting the TV to **Home Use** mode for the best picture in your home environment.
   - **Store Demo** mode is only intended for use in retail environments.
   - If the unit is accidentally set to **Store Demo** mode and you want to return to **Home Use** (**Standard**): Press the Volume button on the TV. When the volume OSD is displayed, press and hold the **MENU** button on the TV for 5 seconds.




3. Press the ▲ or ▼ button to select Air,Cable or Auto, then press the ENTERE button.
   - **Air:** Air antenna signal**.**
   - **Cable:** Cable antenna signal**.**
   - **Auto:** Air and Cable antenna signals**.**
4. Press the ▲ or ▼ button to select the channel source to memorize. Press the **ENTER** ↵ button to select **Start**.
   - **Digital & Analogue**: Digital and Analogue channels.
   - **Digital**: Digital channels.
   - **Analogue**: Analogue channels.
   - The channel search will start and end automatically.
   - Press the **ENTER** ↵ button at any time to interrupt the memorization process.
   - After all the available channels are stored, the message **Set the Clock Mode.** is displayed.
5. Press the **ENTER** ↵ button. Press the ▲ or ▼ button to select **Auto**, then Press the **ENTER** ↵ button.
   - If you select **Manual**, Set current date and time is displayed.
   - If you have received a digital signal, the time will be set automatically. If not, select Manual to set the clock.
6. The description for the connection method providing the best HD screen quality is displayed. Check the description and press the **ENTER** ↵ button.
7. The message **Enjoy your TV.** is displayed. When you have finished, press the **ENTER** ↵ button.
   - Even if the **ENTER** ↵ button is not pressed, the message will automatically disappear after several seconds.

**If you want to reset this feature...**

1. Press the **MENU** button to display the menu. Press the ▲ or ▼ button to select **Setup**, then press the **ENTER** ↵ button.
2. Press the **ENTER** ↵ button again to select **Plug & Play**.
3. Enter your 4 digit PIN number. The default PIN number of a new TV set is '0-0-0-0'.
   - If you want to change PIN number, use the **Change PIN** function. (refer to page 19)
   - The **Plug & Play** feature is only available in the TV mode.

# CHANNEL CONTROL

## Configuring the Channel Menu

### ❑ Antenna

Your TV can memorize both Air and Cable channels.

- If the antenna is connected to ANT 1 IN (AIR), select “Air” and if it is connected to ANT 2 IN(CABLE), select “Cable”.
- If both ANT 1 IN (AIR) and ANT 2 IN (CABLE) are connected, select the antenna input you want.
- If the antenna input is not selected properly, noise may appear on the screen.

### ❑ Auto Store

You can scan for the frequency ranges available to you (and availability depends on your country).

Automatically allocated programme numbers may not correspond to actual or desired programme numbers.

- If a channel is locked using the **Child Lock** function, the PIN input window appears.

**Air / Cable / Auto**

- **Air**: “Air” antenna signal.
- **Cable**: “Cable” antenna signal.
- **Auto**: “Air” and “Cable” antenna signals.

- If the antenna is connected to ANT 1 IN (AIR), select “Air” and if it isconnected to ANT 2 IN (CABLE), select “Cable”.
- If both ANT 1 IN (AIR) and ANT 2 IN (CABLE) are connected, select “Auto”.
- Press the TOOLS button to display the Tools menu. You can also set the antanna by selecting Tools → Switch to Cable / Switch to Air.

**Digital & Analogue / Digital / Analogue**

- **Digital & Analogue**: Digital and Analogue channels.
- **Digital**: Digital channels.
- **Analogue**: Analogue channels.

- Scans for all channels with active broadcast stations and stores them in the TV’s memory.
- If you want to stop Auto Store, press the **ENTER** ↵ button.
  The **Stop Auto Store?** message will be displayed.
  Select **Yes** by pressing the ◄ or ► button, then press the **ENTER** ↵ button.

### ❑ Manual Store

- Scans for a channel manually and stores it in the TV’s memory.
- If a channel is locked using the **Child Lock** function, the PIN input window appears.

**Digital Channel**

Manual store for digital channels.

- **Channel**: Set the Channel number using the ▲, ▼ or number (0~9) buttons.
- **Frequency**: Set the frequency using the number buttons.
- **Bandwidth**: Set the bandwidth using the ▲, ▼ or number (0~9) buttons.

- When it has finished, channels are updated in the channel list.

**Analogue Channel**

Manual store for analogue channel.

- **Programme** (Programme number to be assigned to a channel): Sets the programme number using the ▲, ▼ or number (0~9) buttons.
- **Colour System** → **Auto / PAL / SECAM / NTSC4.43 / NTSC3.58**: Sets the colour system value using the ▲ or ▼ button.
- **Sound System** → **BG / DK / I / M / L**: Sets the sound system value using the ▲ or ▼ button.
- **Channel** (When you know the number of the channel to be stored): Press the ▲ or ▼ button to select **C** (Air channel) or **S** (Cable channel). Press the ► button, then press the ▲, ▼ or number (0~9) buttons to select the required number.
  - You can also select the channel number directly by pressing the number (0~9) buttons.
  - If there is abnormal sound or no sound, reselect the sound standard required.
- **Search** (When you do not know the channel numbers): Press the ▲ or ▼ button to start the search. The tuner scans the frequency range until the first channel or the channel that you selected is received on the screen.
- **Store** (When you store the channel and associated programme number): Set to **OK** by pressing the **ENTER** ↵ button.

- **Channel mode**
  - P (Programme mode): When completing tuning, the broadcasting stations in your area have been assigned to position numbers from P00 to P99. You can select a channel by entering the position number in this mode.
  - C (Air channel mode): You can select a channel by entering the assigned number to each air broadcasting station in this mode.
  - S (Cable channel mode): You can select a channel by entering the assigned number for each cable channel in this mode.

### ❑ Full Guide / Mini Guide

The EPG (Electronic Programme Guide) information is provided by the broadcasters. Programme entries may appear blank or out of date as a result of the information broadcast on a given channel. The display will dynamically update as soon as new information becomes available.

You can also display the guide menu simply by pressing the **GUIDE** button. (To configure the **Default Guide**, refer to the descriptions.)

- **Full Guide**

Displays the programme information as time ordered One hour segments. Two hours of programme information is displayed which may be scrolled forwards or backwards in time.

- **Mini Guide**

The information of each programme is displayed by each line on the current channel Mini Guide screen from the current programme onwards according to the programme starting time order.

### ❑ Default Guide → Mini Guide / Full Guide

You can decide whether to display either the **Mini Guide** or the **Full Guide** when the **GUIDE** button on the remote control is pressed.

### ❑ Channel List

For the detailed procedures on using the **Channel List**, refer to the **Managing Channels** instructions.

You can select these options by simply pressing the **CH LIST** button on the remote control.

### ❑ Channel Mode

When press the **P** ∨/∧ button, Channels will be switched within the selected channel list.

- **Added Ch.**

Channels will be switched within the memorized channel list.

- **Favourite Ch.**

Channels will be switched within the favourite channel list.

### ❑ Fine Tune

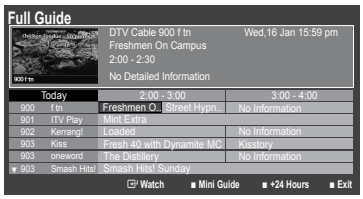
If the reception is clear, you do not have to fine tune the channel, as this is done automatically during the search and store operation. If the signal is weak or distorted, you may have to fine tune the channel manually.

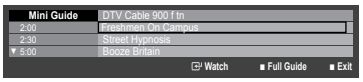
Fine tuned channels that have been saved are marked with an asterisk "*" on the right-hand side of the channel number in the channel banner.

To reset the fine-tuning, select **Reset** by pressing the ▲ or ▼ button and then press the **ENTER** ↵ button.

Only Analogue TV channels can be fine tuned.

### Using the Full / Mini Guide



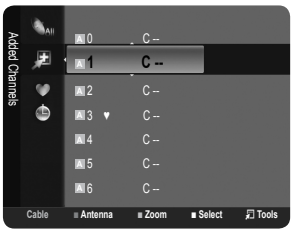

| To... | Then... |
|---|---|
| Watch a programme in the EPG list | Select a programme by pressing the ▲, ▼, ◄, ► button. |
| Exit the guide | Press the blue button |
| If the next programme is selected, it is scheduled with the clock icon displayed. If the **ENTER** button is pressed again, press the ◄, ► button to select Cancel Schedules, the scheduling is canceled with the clock icon gone. | |
| View programme information | Select a programme of your choice by pressing the ▲, ▼, ◄, ► button.<br>Then press the **INFO** button when the programme of your choice is highlighted.<br>The programme title is on the upper part of the screen center. |
| Please click on **INFO** button for the detailed information. Channel Number, Running Time, Status Bar, Parental Level, Video Quality Information (HD / SD), Sound Modes, Subtitle, Languages of Subtitle and brief summary of the highlighted programme are included on the detailed information. "..." will be appeared if the summary is long. | |
| Toggle between the **Mini Guide** or **Full Guide** | Press the red button repeatedly. |
| In Full Guide<br>Scrolls backwards quickly (24 hours).<br>Scrolls forwards quickly (24 hours). | <br>Press the green button repeatedly.<br>Press the yellow button repeatedly. |
| In Mini Guide<br>Display previous page quickly.<br>Display next page quickly. | <br>Press the green button.<br>Press the yellow button. |

### ❑ LNA(Low Noise Amplifier)

- If the TV is operating in a weak-signal area, the LNA function can improve the reception (a low-noise preamplifier boosts the incoming signal).
- While viewing an Analogue channel,this function can work.

## Managing Channels

Using this menu, you can add / delete or set favourite channels and use the programme guide for digital broadcasts.




- **All Channels**

  Shows all currently available channels.

- **Added Channels**

  Shows all added channels.

- **Favourites**

  Shows all favourite channels.

  To select the favourites channels you have set up, press the **FAV.CH** button on the remote control.

- **Programmed**

  Shows all current reserved programmes.

  Select a channel in the **All Channels, Added Channels** or **Favourites** screen by pressing the ▲ / ▼ buttons, and pressing the **ENTER** button. Then you can watch the selected channel.

  **Using the Colour buttons with the Channel List**

  – **Red** (**Channel Type**): Toggle between your TV, Radio, Data / Other and All.

  – **Green** (**Zoom**): Enlarges or shrinks a channel number.

  – **Yellow** (**Select**): Selects multiple channel lists. You can perform the **Add** / **Delete**, **Add to Favourite** / **Delete from Favourite** or **Lock** / **Unlock** function for multiple channels at the same time. Select the required channels and press the yellow button to set all the selected channels at the same time.

  – **TOOLS** (**Tools**): Displays the **Delete** (or **Add**), **Add to Favourite** (or **Delete from Favourite**), **Lock** (or **Unlock**), **Timer Viewing, Edit Channel Name, Edit Channel Number, Sort, Select All, Deselect All** or **Auto Store** menu. (The Option menus may differ depending on the situation.)

**Channel Status Display Icons**

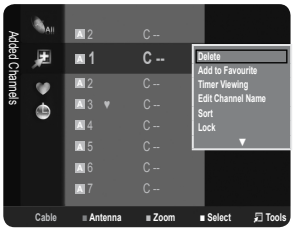
- **An Analogue channel.**
- **A channel selected by pressing the yellow button.**
- **A channel set as a Favourite.**
- **A programme currently being broadcast.**
- **A locked channel.**
- **A reserved programme**

## Channel List Option Menu (in All Channels / Added Channels / Favourites)

Press the **TOOLS** button to use the option menu.

Option menu items may differ depending on the channel status.

### Add / Delete




You can delete or add a channel to display the channels you want.

All deleted channels will be shown on **All Channels** menu.

A gray-coloured channel indicates the channel has been deleted.

The **Add** menu only appears for deleted channels.

You can also delete a channel to the **Added Channels** or **Favourites** menu in the same manner.

### Add to Favourite / Delete from Favourite

You can set channels you watch frequently as favourites.

The ♥ symbol will be displayed and the channel will be set as a favourite.

All favourite channels will be shown on **Favourite** menu.

Press the **TOOLS** button to display the **Tools** menu. You can also set the Add to Favourite by selecting **Tools** → **Add to Favourite**.

### Timer Viewing

If you reserve a programme you want to watch, the channel is automatically switched to the reserved channel in the Channel List; even when you are watching another channel. To reserve a programme, set the current time first. (See page 18)

Only memorized channels can be reserved.

You can set the channel, day, month, year, hour and minute directly by pressing the number buttons on the remote control.

Reserving a programme will be shown on **Programmed** menu.

**Digital Programme Guide and Viewing Reservation**

When a digital channel is selected, and you press the ► button, the Programme Guide for the channel appears. You can reserve a programme according to the procedures described above.

### Edit Channel Name (analogue channels only)

Channels can be labeled so that their call letters appear whenever the channel is selected.

The names of digital broadcasting channels are automatically assigned and cannot be labeled.

### Edit Channel Number (digital channels only) (Australia, Singapore only)

You can also edit the channel number by pressing the number buttons on the remote control.

### Sort (analogue channels only)

This operation allows you to change the programme numbers of the stored channels. This operation may be necessary after using the auto store.

### Lock / Unlock

You can lock a channel so that the channel cannot be selected and viewed. This function is available only when the **Child Lock** is set to **On**. (see page 19)

The PIN number input screen appears. Enter your 4 digit PIN number.

The default PIN number of a new TV set is **0-0-0-0**. You can change the PIN, by selecting **Change PIN** from the menu.

The symbol will be displayed and the channel will be locked.

### Select All / Deselect All

- **Select All**: You can select all the channels in the channel list.
- **Deselect All**: You can deselect all the selected channels by pressing the yellow button.

You can perform the add / delete, Add to Favourites / Delete from Favourites, or Lock / Unlock function for multiple channels at the same time. Select the required channels and press the yellow button to set all the selected channels at the same time.

The ✓ mark appears to the left of the selected channels.

You can only select **Deselect All** when there is a selected channel.

### Auto Store

For further details on setting up options, refer to page 8.

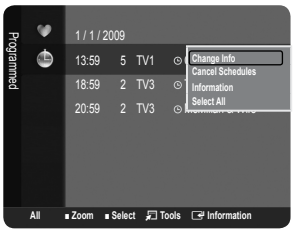
If a channel is locked using the **Child Lock** function, the PIN input window appears.

**Channel List Option Menu (in Programmed)**

You can view, modify or delete a reservation.

Press the **TOOLS** button to use the option menu.

- **Change Info**
  Select to change a viewing reservation.
- **Cancel Schedules**
  Select to cancel a viewing reservation.
- **Information**
  Select to view a viewing reservation. (You can also change the reservation information.)
- **Select All**
  Select all reserved programmes.



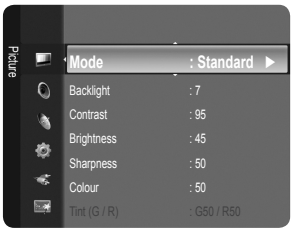

# PICTURE CONTROL

## Configuring the Picture Menu

### ❑ Mode

You can select the type of picture which best corresponds to your viewing requirements.

Press the **TOOLS** button to display the **Tools** menu. You can also set the picture mode by selecting **Tools** → **Picture Mode**.




- **Dynamic**
  Selects the picture for increased definition in a bright room.
- **Standard**
  Selects the picture for the optimum display in a normal environment.
- **Movie**
  Selects the picture for viewing movies in a dark room.

### ❑ Backlight / Contrast / Brightness / Sharpness / Colour / Tint(G/R)

Your television has several setting options that allow you to control the picture quality.

- **Backlight**
  Adjusts the brightness of LCD back light.
- **Contrast**
  Adjusts the contrast level of the picture.
- **Brightness**
  Adjusts the brightness level of the picture
- **Sharpness**
  Adjusts the edge definition of the picture.
- **Colour**
  Adjusts colour saturation of the picture.
- **Tint(G/R)**
  Adjusts the colour tint of the picture.

Select a picture mode to be adjusted first. The adjusted values are saved for each picture mode.

When you make changes to **Backlight, Contrast, Brightness, Sharpness, Colour** or **Tint(G/R)**, the OSD will be adjusted accordingly.

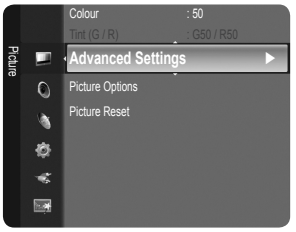
In analogue TV, AV modes of the PAL system, you cannot use the **Tint(G/R)** Function.

In PC mode, you can only make changes to **Backlight, Contrast** and **Brightness**.

Settings can be adjusted and stored for each external device you have connected to an input of the TV.

The energy consumed during use can be significantly reduced if the brightness level of the picture is lowered, which will reduce the overall running cost.

## ❑ Advanced Settings




Samsung's new TVs allow you to make even more precise picture settings than previous models.

- **Advanced Settings** is available in **Standard** or **Movie** mode.
- In PC mode, you can only make changes to **Gamma** and **White Balance** from among the **Advanced Settings** items.

■ **Black Tone → Off / Dark / Darker / Darkest**

You can select the black level on the screen to adjust the screen depth.

■ **Dynamic Contrast → Off / Low / Medium / High**

You can adjust the screen contrast so that the optimal contrast is provided.

■ **Gamma**

You can adjust the Primary Colour (Red, Green, Blue) Intensity.

■ **Colour Space**

Colour Space is a colour matrix composed of red, green and blue colours. Select your favourite Colour Space to experience the most natural colour.

- **Auto**: Auto Colour Space automatically adjusts to the most natural colour tone based on programme sources.
- **Native**: Native Colour Space offers deep and rich colour tone.

■ **White Balance**

You can adjust the colour temperature for more natural picture colours.

- **R-Offset / G-Offset / B-Offset / R-Gain / G-Gain / B-Gain**: You can adjust the Colour 'temperature' in the light areas by changing the values of R, G, B, Recommended for advanced users only.
- **Reset**: The previously adjusted white balance will be reset to the factory defaults.

■ **Flesh Tone**

You can emphasize the pink 'flesh tone' in the picture.

- Changing the adjustment value will refresh the adjusted screen.

■ **Edge Enhancement → Off / On**

You can emphasize object boundaries in the picture.

## ❑ Picture Options

- In PC mode, you can only make changes to the **Colour Tone** and **Size** from among the items in **Picture Options**.

■ **Colour Tone → Cool / Normal / Warm1 / Warm2**

You can select the most comfortable colour tone to your eyes.

- Settings can be adjusted and stored for each external device you have connected to an input of the TV.
- **Warm1** or **Warm2** is only activated when the picture mode is **Movie**.

■ **Size**

You can select the picture size which best corresponds to your viewing requirements.

- Press the **TOOLS** button to display the **Tools** menu. You can also set the size by selecting **Tools → Picture Size**.
- You can select these options by simply pressing the **P.SIZE** button on the remote control.

- **Auto Wide**: Automatically adjusts the picture size to the **16:9** aspect ratio. (New Zealand, Singapore only)
- **16:9**: Adjusts the picture size to 16:9 appropriate for DVDs or wide broadcasting.
- **Wide Zoom**: Magnify the size of the picture more than 4:3.
- **Zoom**: Magnifies the 16:9 wide picture (in the vertical direction) to fit the screen size.
- **4:3**: This is the default setting for a video movie or normal broadcasting.
- **Screen Fit**: Use the function to see the full image without any cutoff when **HDMI** (720p / 1080i / 1080p) or **Component** (1080i / 1080p) signals are input.

- Depending on the input source, the picture size options may vary.
- The items available may differ depending on the selected mode.
- In PC Mode, only **16:9** and **4:3** mode can be adjusted.
- Settings can be adjusted and stored for each external device you have connected to an input of the TV.
- Temporary image retention may occur when viewing a static image on the set for more than two hours.
- **Wide Zoom**: Press the ► button to Select **Position**, then press the **ENTER** button. Press the ▲ or ▼ button to move the screen up / down. Then press the **ENTER** button.
- **Zoom**: Press the ► button to Select **Position**, then press the **ENTER** button. Press the ▲ or ▼ button to move the picture up and down. Then press the **ENTER** button. Press the ► button to Select **Size**, then press the **ENTER** button. Press the ▲ or ▼ button to magnify or reduce the picture size in the vertical direction. Then press the **ENTER** button.
- After selecting **Screen Fit** in HDMI (1080i / 1080p) or Component (1080i / 1080p) mode: Select **Position** by pressing the ◄ or ► button. Use the ▲, ▼, ◄ or ► button to move the picture.

  **Reset**: Press the ◄ or ► button to select **Reset**, then press the **ENTER** button. You can initialize the setting.
- If you use the **Screen Fit** function with HDMI 720p input, 1 line will be cut at the top, bottom, left and right as in the overscan function.

■ **Screen Mode → 16:9 / Wide Zoom / Zoom / 4:3 (New Zealand, Singapore only)**

When setting the picture size to Auto Wide in a 16:9 wide TV, you can determine the picture size you want to see the 4:3 WSS (Wide Screen Service) image or nothing. Each individual European country requires different picture size so this function is intended for users to select it.

- **16:9**: Sets the picture to 16:9 wide mode.
- **Wide Zoom**: Magnify the size of the picture more than 4:3.
- **Zoom**: Magnify the size of the picture vertically on screen.
- **4:3**: Sets the picture to 4:3 normal mode.

✎ This function is available in **Auto Wide** mode.

✎ This function is not available in PC, Component or HDMI mode.

■ **Digital NR → Off / Low / Medium / High / Auto**

If the broadcast signal received by your TV is weak, you can activate the Digital Noise Reduction feature to help reduce any static and ghosting that may appear on the screen.

✎ When the signal is weak, select one of the other options until the best picture is displayed.

■ **HDMI Black Level → Normal / Low**

You can directly select the black level on the screen to adjust the screen depth.

✎ This function is active only when the external input connects to HDMI (RGB signals).

■ **Film Mode → Off / Auto**

The TV can be set to automatically sense and process film signals from all sources and adjust the picture for optimum quality.

✎ **Film Mode** is supported in TV, AV, COMPONENT(480i / 1080i) and HDMI(480i / 1080i).

✎ **Film Mode** is not supported in DTV channel with resolution 576p/720p.

❑ **Picture Reset → Reset Picture Mode / Cancel**

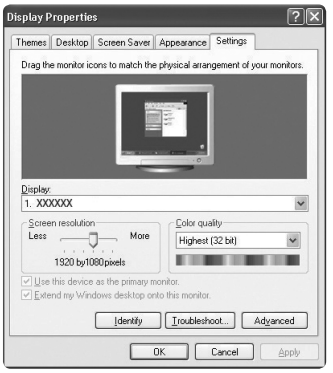
Resets all picture settings to the default values.

✎ **Reset Picture Mode**: Current picture values return to default settings.

## Using Your TV as a Computer (PC) Display

### Setting Up Your PC Software (Based on Windows XP)

The Windows display-settings for a typical computer are shown below. The actual screens on your PC will probably be different, depending upon your particular version of Windows and your particular video card. However, even if your actual screens look different, the same basic set-up information will apply in almost all cases. (If not, contact your computer manufacturer or Samsung Dealer.)




1. First, click on ‘Control Panel’ on the Windows start menu.
2. When the control panel window appears, click on ‘Appearance and Themes’ and a display dialog-box will appear.
3. When the control panel window appears, click on ‘Display’ and a display dialogbox will appear.
4. Navigate to the ‘Settings’ tab on the display dialog-box.

- The correct size setting (resolution): Optimum-1920 X 1080 pixels
- If a vertical-frequency option exists on your display settings dialog box, the correct value is ‘60’ or ‘60 Hz’. Otherwise, just click ‘OK’ and exit the dialog box.

## Display Modes

Both screen position and size will vary depending on the type of PC monitor and its resolution. The resolutions in the table are recommended.

■ **D-Sub and HDMI/DVI Input**

| Mode | Resolution | Horizontal Frequency (KHz) | Vertical Frequency (Hz) | Pixel Clock Frequency (MHz) | Sync Polarity (H / V) |
|---|---|---|---|---|---|
| **IBM** | 640 x 350 | 31.469 | 70.086 | 25.175 | +/- |
| | 720 x 400 | 31.469 | 70.087 | 28.322 | -/+ |
| **MAC** | 640 x 480 | 35.000 | 66.667 | 30.240 | -/- |
| | 832 x 624 | 49.726 | 74.551 | 57.284 | -/- |
| | 1152 x 870 | 68.681 | 75.062 | 100.000 | -/- |
| **VESA CVT** | 720 x 576 | 35.910 | 59.950 | 32.750 | -/+ |
| | 1152 x 864 | 53.783 | 59.959 | 81.750 | -/+ |
| | 1280 x 720 | 44.772 | 59.855 | 74.500 | -/+ |
| | 1280 x 960 | 75.231 | 74.857 | 130.000 | -/+ |
| | 1280 x 720 | 56.456 | 74.777 | 95.750 | -/+ |
| **VESA DMT** | 640 x 480 | 31.469 | 59.940 | 25.175 | -/- |
| | 640 x 480 | 37.861 | 72.809 | 31.500 | -/- |
| | 640 x 480 | 37.500 | 75.000 | 31.500 | -/- |
| | 800 x 600 | 37.879 | 60.317 | 40.000 | +/+ |
| | 800 x 600 | 48.077 | 72.188 | 50.000 | +/+ |
| | 800 x 600 | 46.875 | 75.000 | 49.500 | +/+ |
| | 1024 x 768 | 48.363 | 60.004 | 65.000 | -/- |
| | 1024 x 768 | 56.476 | 70.069 | 75.000 | -/- |
| | 1024 x 768 | 60.023 | 75.029 | 78.750 | +/+ |
| | 1152 x 864 | 67.500 | 75.000 | 108.000 | +/+ |
| | 1280 x 1024 | 63.981 | 60.020 | 108.000 | +/+ |
| | 1280 x 1024 | 79.976 | 75.025 | 135.000 | +/+ |
| | 1280 x 800 | 49.702 | 59.810 | 83.500 | -/+ |
| | 1280 x 800 | 62.795 | 74.934 | 106.500 | -/+ |
| | 1280 x 960 | 60.000 | 60.000 | 108.000 | +/+ |
| | 1360 x 768 | 47.712 | 60.015 | 85.500 | +/+ |
| | 1440 x 900 | 55.935 | 59.887 | 106.500 | -/+ |
| | 1440 x 900 | 70.635 | 74.984 | 136.750 | -/+ |
| | 1680 x 1050 | 65.290 | 59.954 | 146.250 | -/+ |
| **VESA GTF** | 1280 x 720 | 52.500 | 70.000 | 89.040 | -/+ |
| | 1280 x 1024 | 74.620 | 70.000 | 128.943 | -/- |
| **VESA DMT / DTV CEA** | 1920 x 1080p | 67.500 | 60.000 | 148.500 | +/+ |

- When using an HDMI / DVI cable connection, you must use the **HDMI IN 1(DVI)** jack.
- The interlace mode is not supported.
- The set might operate abnormally if a non-standard video format is selected.
- Separate and Composite modes are supported. SOG is not supported.
- Too long or low quality VGA cable can cause picture noise at high resolution modes (1920x1080 or 1600x1200).

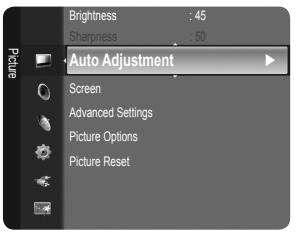
# Setting up the TV with your PC

- Preset: Press the **SOURCE** button to select PC mode.

### ❑ Auto Adjustment

Auto Adjustment allows the PC screen of set to self-adjust to the incoming PC video signal. The values of fine, coarse and position are adjusted automatically.

- Press the **TOOLS** button to display the **Tools** menu. You can also set the Auto Adjustment by selecting **Tools** → **Auto Adjustment**.
- This function does not work in DVI-HDMI mode.




### ❑ Screen

■ **Coarse / Fine**

The purpose of picture quality adjustment is to remove or reduce picture noise. If the noise is not removed by Fine-tuning alone, then adjust the frequency as best as possible (Coarse) and Fine-tune again. After the noise has been reduced, readjust the picture so that it is aligned on the center of screen.

■ **PC Position**

Adjust the PC's screen positioning if it does not fit the TV screen. Press the ▲ or ▼ button to adjusting the Vertical-Position. Press the ◄ or ► button to adjust the Horizontal-Position.

■ **Image Reset**

You can replace all image settings with the factory default values.

# SOUND CONTROL

## Configuring the Sound Menu

### ❑ Mode → Standard / Music / Movie / Clear Voice / Custom

You can select a sound mode to suit your personal preferences.

Press the **TOOLS** button to display the **Tools** menu. You can also configure the sound mode by selecting **Tools** → **Sound Mode**.

### ❑ Equalizer

The sound settings can be adjusted to suit your personal preferences.

- **Mode**

  You can select a sound mode to suit your personal preferences.

- **Balance**

  Controls the balance between the right and left speakers.

- **100Hz / 300Hz / 1KHz / 3KHz / 10KHz (Bandwidth Adjustment)**

  To adjust the level of different bandwidth frequencies

- **Reset**

  Resets the equalizer settings to the default values.

### ❑ SRS TruSurround HD → Off / On

SRS TruSurround HD is a patented SRS technology that solves the problem of playing 5.1 multichannel content over two speakers. TruSurround delivers a compelling, virtual surround sound experience through any two-speaker playback system, including internal television speakers. It is fully compatible with all multichannel formats.

Press the SRS button on the remote control to select Off or On.

### ❑ Audio Language (digital channels only)

You can change the default value for audio languages. Displays the language information for the incoming stream.

While viewing a digital channel, this function can be selected.

You can only select the language among the actual languages being broadcast.

### ❑ Audio Format → MPEG / Dolby Digital / Advanced (digital channels only)

When sound is emitted from both the main speaker and the audio receiver, a sound echo may occur due to the decoding speed difference between the main speaker and the audio receiver. In this case, use the TV Speaker function.

While viewing a digital channel, this function can be selected.

The **Audio Format** appears according to the broadcasting signal.

### ❑ Auto Volume → Off / On

Each broadcasting station has its own signal conditions, and so it is not easy to adjust the volume every time the channel is changed. This feature lets you automatically adjust the volume of the desired channel by lowering the sound output when the modulation signal is high or by raising the sound output when the modulation signal is low.

### ❑ Speaker Select → External Speaker / TV Speaker

If you want to hear the sound through separate speakers, cancel the internal amplifier.

- The volume and **MUTE** buttons do not operate when the **Speaker Select** is set to **External Speaker**.
- If you select **External Speaker** in the **Speaker Select** menu, the sound settings will be limited.

| | TV's Internal Speakers | Audio Out (Optical, L/R Out) to Sound System |
|---|---|---|
| | RF, AV, Component, PC, HDMI | RF, AV, Component, PC, HDMI |
| **TV Speaker** | Sound Output | Sound Output |
| **External Speaker** | Mute | Sound Output |
| Video No Signal | Mute | Mute |

### ❑ Sound Reset → Reset All / Reset Sound Mode / Cancel

You can restore the Sound settings to the factory defaults.

- **Reset Sound Mode**: Current sound values return to default settings.

## Selecting the Sound Mode

You can set the sound mode by pressing the **DUAL** button. When you press it, the current sound mode is displayed on the screen.

| | Audio Type | Dual 1 / 2 | Default |
|---|---|---|---|
| A2 Stereo | Mono | **MONO** | Automatic change |
| | Stereo | **STEREO ↔ MONO** | |
| | Dual | **DUAL 1 ↔ DUAL 2** | **DUAL 1** |
| NICAM Stereo | Mono | **MONO** | Automatic change |
| | Stereo | **MONO ↔ STEREO** | |
| | Dual | **MONO ↔ DUAL 1** ↔ **DUAL 2** | **DUAL 1** |

- If the stereo signal is weak and an automatic switching occurs, then switch to the mono.
- This function is only activated in stereo sound signal. It is deactivated in mono sound signal.
- This function is only available in TV mode.

## Configuring the Setup Menu

### ❑ Plug & Play

Content of Plug & Play,please refer to page 7.

### ❑ Language → 中文/English

You can set the menu language you want.

### ❑ Time

■ **Clock**

Setting the clock is necessary in order to use the various timer features of the TV.

- The current time will appear every time you press the **INFO** button.
- If you disconnect the power cord, you have to set the clock again.

- **Clock Mode**

  You can set up the current time manually or automatically.
  - **Auto**: Set the current time automatically using the time from the digital broadcast.
  - **Manual**: Set the current time to a manually specified time.

- **Clock Set**

  You can set the current time manually.
  - You can set the day, month, year, hour and minute directly by pressing the number buttons on the remote control.
  - Set up this item when you have set **Clock Mode** to **Manual**.

■ **Sleep Timer → Off / 30 / 60 / 90 / 120 / 150 / 180**

The sleep timer automatically shuts off the TV after a preset time (30, 60, 90, 120, 150 and 180 minutes).

- The TV automatically switches to standby mode when the timer reaches 0.
- To cancel the **Sleep Timer** function, select **Off**.
- Press the **TOOLS** button to display the **Tools** menu. You can also set the sleep timer by selecting **Tools → Sleep Timer**.

■ **Timer 1 / Timer 2 / Timer 3**

Three different on / off timer settings can be made. You must set the clock first.

- **On Time**: Set the hour, minute, and activate / inactivate. (To activate timer with the setting you've chosen, set to **Activate**.)
- **Off Time**: Set the hour, minute, and activate / inactivate. (To activate timer with the setting you've chosen, set to **Activate**.)
- **Volume**: Select the desired turn on volume level.
- **Antenna**: Select **Air,DTV Air** or **Cable**.
- **Channel**: Select the desired channel.
- **Repeat**: Select **Once, Everyday, Mon~Fri, Mon~Sat, Sat~Sun** or **Manual**.
  - When **Manual** is selected, press the ► button to select the desired day of the week. Press the **ENTER** button over the desired day and the ✓ mark will appear.
- You can set the hour, minute and channel by pressing the number buttons on the remote control.
- **Auto Power Off**

  When you set the timer On, the television will eventually turn off, if no controls are operated for 3 hours after the TV was turned on by the timer. This function is only available in timer On mode and prevents overheating, which may occur if a TV is on for too long time.

### ❑ Game Mode → Off / On

When connecting to a game console such as PlayStation™ or Xbox™, you can enjoy a more realistic gaming experience by selecting game menu.

- Restrictions on game mode (Caution)
  - To disconnect the game console and connect another external device, set **Game Mode** to **Off** in the setup menu.
  - If you display the TV menu in **Game mode**, the screen shakes slightly.
- **Game Mode** is not available in TV and PC mode.
- If the picture is poor when external device is connected to TV, check if **Game Mode** is **On**. Set **Game Mode** to **Off** and connect external devices.
- If **Game Mode** is On:
  - Picture Mode changes to **Standard** and Sound Mode changes to **Custom** automatically. The user cannot change these to other modes.
  - Sound Mode in the Sound menu is deactivated. Adjust the sound using the equalizer.
  - The Reset Sound function is activated. Selecting the Reset function after setting the equalizer resets the equalizer setting to the factory defaults.

### ❑ Child Lock → Off / On

This feature allows you to prevent unauthorized users, such as children, from watching unsuitable programme by muting out video and audio.

- Before the setup screen appears, the PIN number input screen appears. Enter your 4 digit PIN number.
- The default PIN number of a new TV set is **0-0-0-0**. You can change the PIN by selecting **Change PIN** from the menu.
- You can lock some channels in Channel List. (refer to page 10)
- **Child Lock** is available only in TV mode.

### ❑ Change PIN

You can change your personal ID number that is required to set up the TV.

- Before the setup screen appears, the PIN number input screen appears. Enter your 4 digit PIN number.
- The default PIN number of a new TV set is **0-0-0-0**.
- If you forget the PIN code, press the remote control buttons in the following sequence, which resets the PIN to 0-0-0-0: **POWER** (Off) → **MUTE** → 8 → 2 → 4 → **POWER** (On).

### ❑ Subtitle

You can activate and deactivate the subtitles. Use this menu to set the Subtitle Mode. **Normal** under the menu is the basic subtitle and **Hard of hearing** is the subtitle for a hearing-impaired person.

- **Subtitle → Off / On**

  Switches subtitles on or off.

- **Mode → Normal / Hard of hearing**

  Sets the subtitle mode.

- **Subtitle Language**

  Set the subtitle language.

  - If the programme you are watching does not support the **Hard of hearing** function, **Normal** automatically activates even though **Hard of hearing** mode is selected.
  - English is the default in cases where the selected language is unavailable in the broadcast.
  - You can select these options simply by pressing the **SUBT.** button on the remote control.

### ❑ Preference

- **Primary Audio Language / Secondary Audio Language / Primary Subtitle Language / Secondary Subtitle Language**

  Using this feature, users can select one of the languages. The language selected here is the default when the user selects a channel.

  If you change the language setting, the Subtitle Language, Audio Language of the Language menu are automatically changed to the selected language.

  The Subtitle Language, and the Audio Language show a list of languages supported by the current channel and the selection is highlighted. If you change this language setting, the new selection is only valid for the current channel. The changed setting does not change the setting of the Primary Subtitle Language, Primary Audio Language.

❑ **Melody → Off / Low / Medium / High**

A melody sound can be set to come on when the TV is powered On or Off.

✎ **The Melody does not play**

– When no sound is output from the TV because the **MUTE** button has been pressed.
– When no sound is output from the TV because the (–) Volume button has been pressed.
– When the TV is turned off by Sleep Timer function.

❑ **Energy Saving → Off / Low / Medium / High / Auto**

This feature adjusts the brightness of the TV in order to reduce power consumption. When watching TV at night, set the **Energy Saving** mode option to **High** to reduce eye fatigue as well as power consumption.

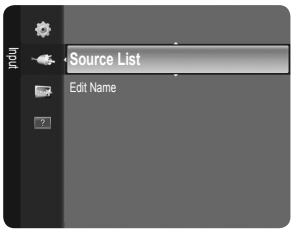
✎ Press the **TOOLS** button to display the **Tools** menu. You can also set the Energy Saving option by selecting **Tools** → **Energy Saving**.

# INPUT / SUPPORT

## Configuring the Input Menu

❑ **Source List**

Use to select TV or other external input sources such as DVD / Blu-ray players / Satellite receivers (Set-Top Box) connected to the TV. Use to select the input source of your choice.




✎ Press the **SOURCE** button on the remote control to view an external signal source. TV mode can be selected by pressing the **TV** button, number buttons (0~9), and the **P** ∧ / ∨ button on the remote control.

■ **TV / PC / AV1 / AV2 / Component1 / Component2 / HDMI1(DVI) / HDMI2 / HDMI3**

✎ You can choose only those external devices that are connected to the TV. In the **Source List**, connected inputs will be highlighted and sorted to the top. Inputs that are not connected will be sorted to the bottom.

✎ PC always stays activated.

✎ **Using the Colour buttons on the remote with the Source list**

– **Red** (**Refresh**): Refreshes the connecting external devices.
– **TOOLS** (**Tools**): Displays the **Edit Name** and **Information** menus.

❑ **Edit Name**

Name the device connected to the input jacks to make your input source selection easier.

■ **VCR / DVD / Cable STB / Satellite STB / PVR STB / AV Receiver / Game / Camcorder / PC / DVI PC / DVI / TV / IPTV / Blu-ray / HD DVD / DMA**

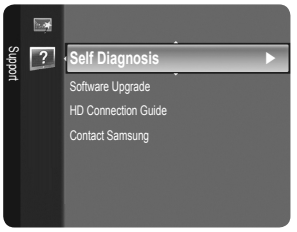
✎ When a PC with a resolution of 1920 x 1080@60Hz is connected to the **HDMI IN 1(DVI)** port, you should set the **HDMI1/DVI** mode to **DVI PC** in the **Edit Name** of the **Input** mode.

✎ When connecting an HDMI/DVI cable to the **HDMI IN 1(DVI)** port, you should set the **HDMI1/DVI** mode to **DVI** or **DVI PC** in the **Edit Name** of the **Input** mode. In this case, a separate sound connection is required.

## Configuring the Support Menu

### ❑ Self Diagnosis

#### Picture Test




If you think you have a picture problem, perform the picture test. Check the colour pattern on the screen to see if the problem still exists.

- **Yes**: If the test pattern does not appear or there is noise in the test pattern, select **Yes**. There may be a problem with the TV. Contact Samsung's call center for assistance.
- **No**: If the test pattern is properly displayed, select **No**. There may be a problem with your external equipment. Please check your connections. If the problem still persists, refer to the external device's user manual.

#### Sound Test

If you think you have a sound problem, please perform the sound test. You can check the sound by playing a built-in melody sound through the TV.

- If you hear no sound from the TV's speakers, before performing the sound test, make sure **Speaker Select** is set to **TV speaker** in the Sound menu.
- The melody will be heard during the test even if **Speaker Select** is set to **External Speaker** or the sound is muted by pressing the **MUTE** button.
- **Yes**: If during the sound test you can hear sound only from one speaker or not at all, select **Yes**. There may be a problem with the TV. Contact Samsung's call center for assistance.
- **No**: If you can hear sound from the speakers, select **No**. There may be a problem with your external equipment. Please check your connections. If the problem still persists, refer to the external device's user manual.

#### Signal Information (digital channels only)

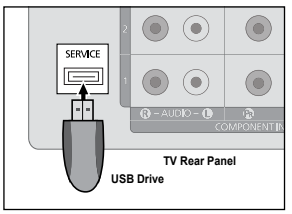
Unlike analogue channels, which can vary in reception quality from 'snowy' to clear, digital (HDTV) channels have either perfect reception quality or you will not receive them at all. So, unlike analogue channels, you cannot fine tune a digital channel. You can, however, adjust your antenna to improve the reception of available digital channels.

- If the signal strength meter indicates that the signal is weak, physically adjust your antenna to increase the signal strength. Continue to adjust the antenna until you find the best position with the strongest signal.

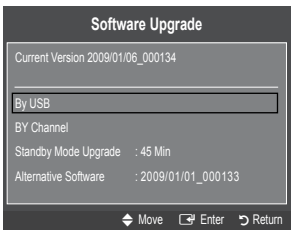
### ❑ Software Upgrade

To keep your product up-to-date with new Digital Television features then software upgrades are periodically broadcast as part of the normal Television signal. It will automatically detect these signals and display the software upgrade banner. You are given the option to install the upgrade.

- Current Version shows version of the software being installed in the TV.
- Alternative Software shows the previous version that can be replaced.
- Software is represented as 'Year/Month/Day_Version'. The more recent the date, the newer the software version. Installing the latest version is recommended.




#### By USB




Insert a USB drive containing the firmware upgrade into TV. Please be careful to not disconnect the power or remove the USB drive while upgrades are being applied. The TV will turn off and turn on automatically after completing the firmware upgrade. Please check the firmware version after the upgrades are complete. When software is upgraded, video and audio settings you have made will return to their default (factory) settings.

We recommend you write down your settings so that you can easily reset them after the upgrade.

#### By Channel

Upgrades the software using the broadcasting signal.

- If the function is selected during the software transmission period, this function searches for available software and downloads the software.
- The time required to download the software is determined by the signal status.

■ **Standby Mode Upgrade**

To continue software upgrade with master power on, Select On by pressing the ▲ or ▼ button. 45 minutes after entering standby mode, a manual upgrade is automatically conducted. Since the power of the unit is turned on internally, the screen may be on slightly for the LCD product. This phenomenon may continue for more than 1 hour until the software upgrade is completed.

■ **Alternative Software**

If Alternative Software is existing, this menu will be activated. You can change the software to previous version.

- If software was changed, existing software is displayed.
- You can change current software to alternative software by 'Alternative Software'.

### ❑ HD Connection Guide

This menu presents the connection method that provides the optimal quality for the HD TV.
Refer to this information when connecting external devices to the TV.

### ❑ Contact Samsung

View this information when your TV does not work properly or when you want to upgrade the software.
You can view the information regarding the call center, product and software file download method.

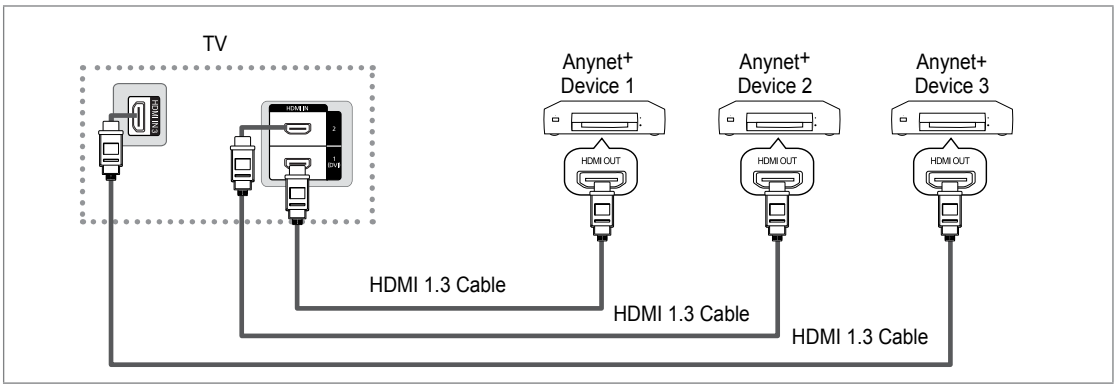
# ANYNET+

## Connecting Anynet+ Devices

**What is Anynet+?**

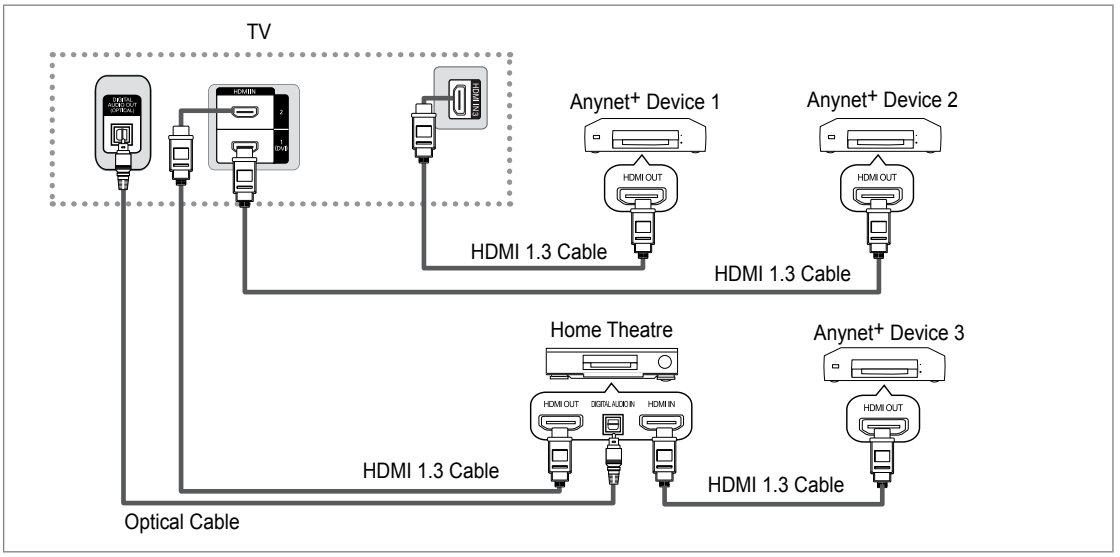
Anynet+ is a function that enables you to control all connected Samsung devices that support Anynet+ with your Samsung TV's remote. The Anynet+ system can be used only with Samsung devices that have the Anynet+ feature. To be sure your Samsung device has this feature, check if there is an Anynet+ logo on it.

**To connect to a TV**




1. Connect the **HDMI IN (1(DVI), 2,** or **3)** jack on the TV and the HDMI OUT jack of the corresponding Anynet+ device using an HDMI cable.

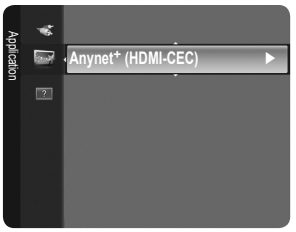
**To connect to Home Theatre**




1. Connect the **HDMI IN (1(DVI), 2,** or **3)** jack on the TV and the HDMI OUT jack of the corresponding Anynet+ device using an **HDMI** cable.
2. Connect the HDMI IN jack of the home theatre and the HDMI OUT jack of the corresponding Anynet+ device using an HDMI cable.
   - Connect the Optical cable between the **DIGITAL AUDIO OUT (OPTICAL)** jack on your TV and the Digital Audio Input on the Home Theatre.
   - When following the connection above, the Optical jack only outputs 2 channel audio. You will only hear sound from the Home Theatre's Front Left and Right speakers and the subwoofer. If you want to hear 5.1 channel audio, connect the **DIGITAL AUDIO OUT (OPTICAL)** jack on the DVD / Satellite Box (ie Anynet Device 1 or 2) directly to the Amplifier or Home Theatre, not the TV.
   - Connect only one Home Theatre.
   - You can connect an Anynet+ device using the HDMI 1.3 cable. Some HDMI cables may not support Anynet+ functions.
   - Anynet+ works when the AV device supporting Anynet+ is in the Standby or On status.
   - Anynet+ supports up to 12 AV devices in total. Note that you can connect up to 3 devices of the same type.

## Setting Up Anynet+

Press the **TOOLS** button to display the **Tools** menu. You can also display Anynet+ menu by selecting **Tools** → **Anynet+ (HDMI-CEC)**.




### ❑ Setup

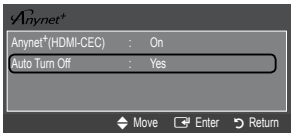
■ **Anynet+ (HDMI-CEC)** → **Off / On**

To use the Anynet+ Function, **Anynet+ (HDMI-CEC)** must be set to **On**.

- When the **Anynet+ (HDMI-CEC)** function is disabled, all the Anynet+ related operations are deactivated.

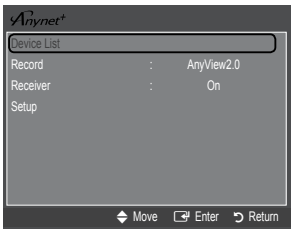
■ **Auto Turn Off** → **No / Yes**

Setting an Anynet+ Device to turn Off automatically when the TV is Turned Off and setting a TV to turn off automatically when a HDMI-CEC device requestes tv to turn off.




- Some HDMI-CEC devices may not support this function, for detail information, you can refer to the external device's user manual or call manufacturer's customer service center.
- If you set **Auto Turn Off** to **Yes**, connected external devices are also turned off when the TV is turned off. If an external device is still recording, it may or may not turn off.

## Switching between Anynet+ Devices




1. Press the **TOOLS** button. Press the **ENTER** button to select **Anynet+ (HDMI-CEC)**.
2. Press the ▲ or ▼ button to select **Device List**, then press the **ENTER** button.
   - Anynet+ devices connected to the TV are listed.
   - If you cannot find a device you want, press the red button to scan for devices.
3. Press the ▲ or ▼ button to select a particular device and press the **ENTER** button. It is switched to the selected device.
   - Only when you set **Anynet+ (HDMI-CEC)** to **On** in the **Application** menu, the **Device List** menu appears.

- Switching to the selected devices may take up to 2 minutes. You cannot cancel the operation during the switching operation.
- The time required to scan for devices is determined by the number of connected devices.
- When the device scan is complete, the number of devices found are not displayed.
- Although the TV automatically searches the device list when the TV is turned on via the power button, devices connected to the TV may not always be automatically displayed in the device list. Press the red button to search for the connected device.
- If you have selected external input mode by pressing the **SOURCE** button, you cannot use the Anynet+ function. Make sure to switch to an Anynet+ device by using the **Device List**.

### Anynet+ Menu

The Anynet+ menu changes depending on the type and status of the Anynet+ devices connected to the TV.

| Anynet+ Menu | Description |
|---|---|
| **View TV** | Anynet+ mode changes to TV broadcast mode. |
| **Device List** | Shows the Anynet+ device list. |
| (device_name) **Menu** | Shows the connected device menus. E.g. If a DVD recorder is connected, the disc menu of the DVD recorder will appear. |
| (device_name) **INFO** | Shows the play menu of the connected device. E.g. If a DVD recorder is connected, the play menu of the DVD recorder will appear. |
| **Recording**: (*recorder) | Starts recording immediately using the recorder. (This is only available for devices that support the recording function.) |
| **Stop Recording**: (*recorder) | Stops recording. |
| **Receiver** | Sound is played through the receiver. |

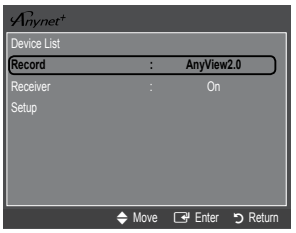
- If more than one recording device is connected, they are displayed as (*recorder) and if only one recording device is connected, it will be represented as (*device_name).

### TV Remote Control Buttons Available in Anynet+ Mode

| Device Type | Operating Status | Available Buttons |
|---|---|---|
| Anynet+ Device | After switching to the device, when the menu of the corresponding device is displayed on the screen. | Numeric buttons<br>▲/▼/◄/►/ **ENTER** buttons<br>Colour buttons / **EXIT** button |
| | After switching to the device, while playing a file | ◄◄(Backward search) / ►►(Forward search) / ■(Stop) / ►(Play) / ❚❚(Pause) |
| Device with built-in Tuner | After switching to the device, when you are watching a TV programme | **P** ∨ / **P** ∧ button |
| Audio Device | When Receiver is activated | Volume / **MUTE** button |

- The ● button works only while in the recordable state.
- You cannot control Anynet+ devices using the buttons on the TV. You can control Anynet+ devices only using the TV remote control.
- The TV remote control may not work under certain conditions. If this occurs, reselect the Anynet+ device.
- The Anynet+ functions do not operate with other manufacturers' products.
- The ◄◄, ►► operations may differ depending on the device.

## Recording

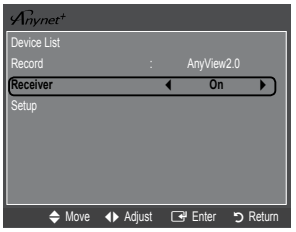



You can make a recording of a TV programme using a Samsung recorder.

1. Press the **TOOLS** button. Press the **ENTER** button to select **Anynet+ (HDMI-CEC)**.
2. Press the ▲ or ▼ button to select Recording Immediately and press the **ENTER** button. Recording begins.
   - When there is more than one recording device
     When multiple recording devices are connected, the recording devices are listed. Press the ▲ or ▼ button to select a recording device and press the **ENTER** button. Recording begins.
   - When the recording device is not displayed select **Device List** and press the red button to search devices
3. Press the **EXIT** button to exit.

- You can record the source streams by selecting **Recording**: (device_name).
- Pressing the ● button will record whatever you are currently watching. If you are watching video from another device, the video from the device is recorded.
- Before recording, check whether the antenna jack is properly connected to the recording device. To properly connect an antenna to a recording device, refer to the recording device's users manual.

## Listening through a Receiver (Home theatre)




You can listen to sound through a receiver instead of the TV speaker.

1. Press the **TOOLS** button. Press the **ENTER** button to select **Anynet+ (HDMI-CEC)**.
2. Press the ▲ or ▼ button to select **Receiver**. Press the ◄ or ► button to select **On** or **Off**.
3. Press the **EXIT** button to exit.
   - If your receiver supports audio only, it may not appear in the device list.
   - The receiver will work when you have properly connected the optical in jack of the receiver to the **DIGITAL AUDIO OUT (OPTICAL)** jack of the TV.
   - When the receiver (home theatre) is set to On, you can hear sound output from the TV's Optical jack. When the TV is displaying a DTV(air) signal, the TV will send out 5.1 channel sound to the Home theatre receiver. When the source is a digital component such as a DVD and is connected to the TV via HDMI, only 2 channel sound will be heard from the Home Theatre receiver.
   - If there is a power interruption to the TV when the **Receiver** is set to **On** (by disconnecting the power cord or a power failure), the **Speaker Select** may be set to **External Speaker** when you turn the TV on again.

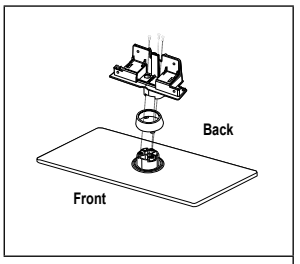
## Troubleshooting for Anynet+

| Problem | Possible Solution |
|---|---|
| Anynet+ does not work. | ● Check if the device is an Anynet+ device. The Anynet+ system supports Anynet+ devices only.<br>● Connect only one receiver (home theatre).<br>● Check if the Anynet+ device power cord is properly connected.<br>● Check the Anynet+ device's Video/Audio/HDMI 1.3 cable connections.<br>● Check whether Anynet+ (HDMI-CEC) is set to On in the Anynet+ setup menu.<br>● Anynet+ doesn't work in certain situations. (Searching channels, Operating **Plug & Play**, etc.)<br>● When connecting or removing the HDMI 1.3 cable, please make sure to search devices again or turn your TV off and on again.<br>● Check if the Anynet+ Function of Anynet+ device is set on. |
| I want to start Anynet+. | ● Check if the Anynet+ device is properly connected to the TV and check if the **Anynet+ (HDMI-CEC)** is set to **On** in the **Anynet+ Setup** menu.<br>● Press the TV button on the TV remote control to switch to TV. Then press the **TOOLS** button to show the Anynet+ menu and select a menu you want. |
| I want to exit Anynet+. | ● Select View **TV** in the Anynet+ menu.<br>● Press the SOURCE button on the TV remote control and select a device other than Anynet+ devices.<br>● Press **P ∨/∧** and **PRE-CH** buttons to change to the TV mode. (Note that the channel button operates only when a tuner-embedded Anynet+ device is not connected.) |
| The message 'Connecting to Anynet+ device...' appears on the screen. | ● You cannot use the remote control when you are configuring Anynet+ or switching to a view mode.<br>● Use the remote control when the Anynet+ setting or switching to view mode is complete. |
| The Anynet+ device does not play. | ● You cannot use the play function when Plug & Play is in progress. |
| The connected device is not displayed. | ● Check whether or not the device supports Anynet+ functions.<br>● Check whether or not the HDMI 1.3 cable is properly connected.<br>● Check whether **Anynet+ (HDMI-CEC)** is set to **On** in the Anynet+ setup menu.<br>● Search Anynet+ devices again.<br>● You can connect an Anynet+ device using the HDMI 1.3 cable only. Some HDMI cables may not support Anynet+ functions.<br>● If it is terminated by an abnormal situation such as disconnecting the HDMI cable or power cord or a power failure, please repeat the device scan. |
| The TV programme cannot be recorded. | ● Check whether the antenna jack on the recording device is properly connected. |
| The TV sound is not output through the receiver. | ● Connect the optical cable between TV and the receiver. |

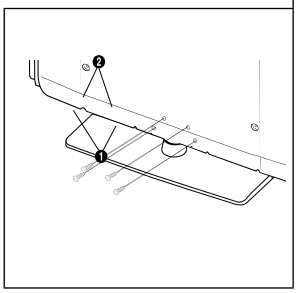
# RECOMMENDATIONS

## Installing the Stand

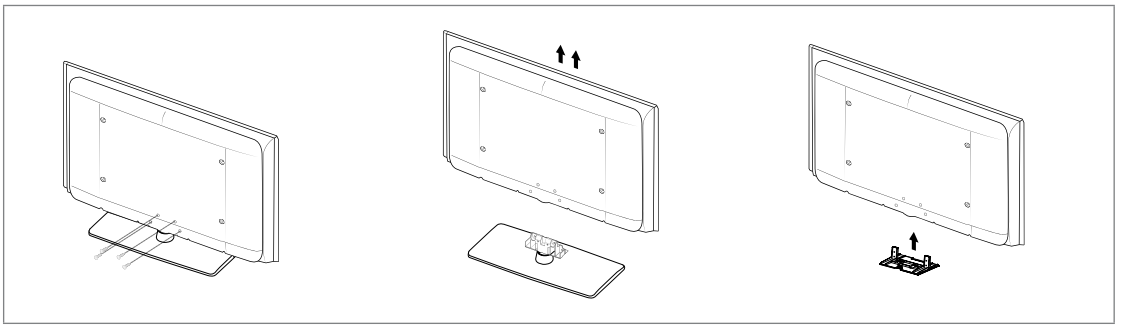
**Preset**: Place the Guide Stand and Cover Neck onto the stand and fasten it using the screws. Applicable to 32inch models only.




1. Attach your LCD TV to the stand.
   - Two or more people should carry the TV.
   - Make sure to distinguish between the front and back of the stand when assembling them.
   - To make sure the TV is installed on the stand at a proper level, do not apply excess downward pressure to the upper left of right sides of the TV.
2. Fasten two screws at position ❶ and then fasten two screw at position ❷.
   - Stand the product up and fasten the screws. If you fasten the screws with the LCD TV placed down, it may lean to one side.
   - The stand is installed for models with the screen size of 37 inch and above.



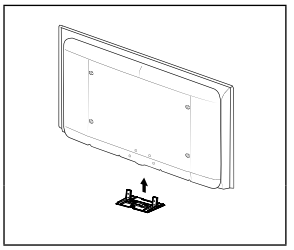

## Disconnecting the Stand



1. Remove four screws from the back of the TV.
2. Separate the stand from the TV.
   - Two or more people should carry the TV.
3. Cover the bottom hole with the cover.

## Installing the Wall Mount Kit

Wall mount items (sold separately) allow you to mount the TV on the wall.
For detailed information on installing the wall mount, see the instructions provided with the Wall Mount items. Contact a technician for assistance when installing the wall mounted bracket.
Samsung Electronics is not responsible for any damage to the product or injury to yourself or others if you elect to install the TV on your own.



⚠ Do not install your Wall Mount Kit while your TV is turned on. It may result in personal injury due to electric shock.

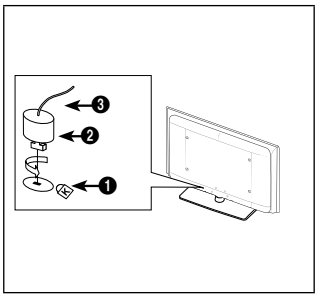
## Anti-Theft Kensington Lock

The Kensington Lock is a device used to physically fix the system when using it in a public place. The appearance and locking method may differ from the illustration depending on the manufacturer.

Refer to the manual provided with the Kensington Lock for proper use.

- The locking device has to be purchased separately.
- The location of the Kensington Lock may be different depending on its model.

1. Insert the locking device into the Kensington slot on the LCD TV ❶ and turn it in the locking direction ❷.
2. Connect the Kensington Lock cable ❸.
3. Fix the Kensington Lock to a desk or a heavy stationary object.

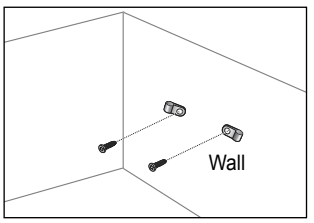



## Securing the TV to the Wall

**Caution**: Pulling, pushing, or climbing on the TV may cause the TV to fall. In particular, ensure your children do not hang over or destabilize the TV; doing so may cause the TV to tip over, causing serious injuries or death. Follow all safety precautions provided on the included Safety Flyer. For added stability, install the anti-fall device for safety purposes, as follows.

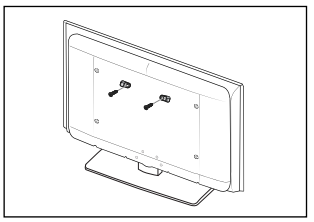
**To secure the TV:**

1. Put the screws into the clamps and firmly fasten them onto the wall. Confirm that the screws have been firmly installed onto the wall.
   - You may need additional material such as an anchor depending on the type of wall.
   - Since the necessary clamps, screws, and string are not supplied, please purchase them separately.

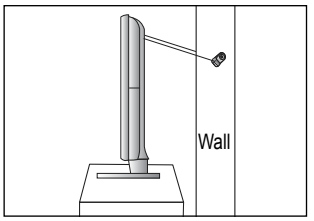



2. Remove the screws from the centre back of the TV, put the screws into the clamps, and then fasten the screws onto the TV again.
   - Screws may not be supplied with the product. In this case, please purchase the screws of the following specifications.
   - Screw Specifications

   For a 17 ~ 29 Inch LCD TV: M4 X 15 / For a 32 ~ 40 Inch LCD TV: M6 X 15



3. Connect the clamps fixed onto the TV and the clamps fixed onto the wall with a strong cable.
   - Install the TV near to the wall so that it does not fall backwards.
   - It is safe to connect the string so that the clamps fixed on the wall are equal to or lower than the clamps fixed on the TV.
   - Remove the cable before moving the TV.
4. Verify all connections are properly secured. Periodically check connections for any sign of fatigue for failure. If you have any doubt about the security of your connections, contact a professional installer.



## Troubleshooting: Before Contacting Service Personnel

| Problem | Possible Solution |
|---|---|
| No sound or picture | Check that the mains lead has been connected to a wall socket.<br>Check that you have pressed the button on your set.<br>Check the picture contrast and brightness settings.<br>Check the volume. |
| Normal picture but no sound | Check the volume.<br>Check whether the **MUTE** button has been pressed on the remote control.<br>Check the **Speaker Select** settings. |
| Screen is black and power indicator light blinks steadily | On your computer check; Power, Signal Cable.<br>The TV is using its power management system.<br>Move the computer's mouse or press any key on the keyboard. |
| No picture or black and white picture | Adjust the colour settings.<br>Check that the broadcast system selected is correct. |
| Sound and picture interference | Try to identify the electrical appliance that is affecting the set and move it further away.<br>Plug your set into a different mains socket. |
| Blurred or snowy picture, distorted sound | Check the direction, location and connections of your aerial.<br>This interference is often due to the use of an indoor aerial. |
| Remote control malfunctions | Replace the remote control batteries.<br>Check the battery terminals. |
| 'Check signal cable.' message is displayed | Check that the signal cable is firmly connected to the PC or video sources.<br>Check that the PC or video sources are turned on. |
| On PC mode, 'Not Supported Mode.' message is displayed | Check the maximum resolution and the frequency of the video adaptor.<br>Compare these values with the data in the Display Modes. |
| The damaged picture appears in the corner of the screen | If **Screen Fit** is selected in some external devices, the damaged picture may appear in the corner of the screen. This symptom is caused by external devices, not TV. |
| The 'Resets all settings to the default values.' message appears. | This appears when you press and hold the **EXIT** button for a while. The product settings are reset to the factory defaults. |
| You may see small particles if you look closely at the edge of the bezel surrounding the TV screen. | This is part of the product's design and is not a defect. |

The TFT LCD panel uses a panel consisting of sub pixels (6 220 800) which require sophisticated technology to produce. However, there may be few bright or dark pixels on the screen. These pixels will have no impact on the performance of the product.

## Specifications

| Model Name | LA32B530 | LA37B530 |
|---|---|---|
| **Screen Size**<br>(Diagonal) | 32 inch | 37 inch |
| **PC Resolution**<br>(Optimum) | 1920 X 1080 @ 60 Hz | 1920 X 1080 @ 60 Hz |
| **Sound**<br>Output | 10W x 2 | 10W x 2 |
| **Dimension (WxDxH)**<br>Without Stand<br>With stand | <br>801 X 77 X 518 mm<br>801 X 220 X 562 mm | <br>918 X 77 X 597 mm<br>917 X 300 X 650 mm |
| **Weight**<br>With Stand | 12 kg | 15 kg |
| **Environmental Considerations**<br>Operating Temperature<br>Operating Humidity<br>Storage Temperature<br>Storage Humidity | 10°C to 40°C (50°F to 104°F)<br>10% to 80%, non-condensing<br>-20°C to 45°C (-4°F to 113°F)<br>5% to 95%, non-condensing | |
| **Stand Swivel**<br>(Left / Right) | -20˚ ~ 20˚ | |

| Model Name | LA40B530 | LA46B530 |
|---|---|---|
| **Screen Size**<br>(Diagonal) | 40 inch | 46 inch |
| **PC Resolution**<br>(Optimum) | 1920 X 1080 @ 60 Hz | 1920 X 1080 @ 60 Hz |
| **Sound**<br>Output | 10W x 2 | 10W x 2 |
| **Dimension (WxDxH)**<br>Without Stand<br>With stand | <br>998 X 78 X 621 mm<br>998 X 260 X 686 mm | <br>1127 X 78 X 712 mm<br>1127 X 260 X 766 mm |
| **Weight**<br>With Stand | 18 kg | 24 kg |
| **Environmental Considerations**<br>Operating Temperature<br>Operating Humidity<br>Storage Temperature<br>Storage Humidity | 10°C to 40°C (50°F to 104°F)<br>10% to 80%, non-condensing<br>-20°C to 45°C (-4°F to 113°F)<br>5% to 95%, non-condensing | |
| **Stand Swivel**<br>(Left / Right) | -20˚ ~ 20˚ | |

- Design and specifications are subject to change without prior notice.
- This device is a Class B digital apparatus.
- For the power supply and Power Consumption, refer to the label attached to the product.